


Memorandum

*Flex your power!
Be energy efficient!*

To: CHARLIE FIELDER-1
BRIAN CRANE-2
JODY JONES-3
BIJAN SARTIPI-4
RICHARD KRUMHOLZ-5
MALCOLM DOUGHERTY-6
DOUG FAILING-7
MICHAEL PEROVICH-8
TOM HALLENBECK-9
KOME AJISE-10
PEDRO ORSO-DELGADO-11
CINDY QUON-12

Date: January 16, 2007

From: **ROBERT A. STOTT** 
Deputy Division Chief
Structure Design Services &
Earthquake Engineering
Division of Engineering Services

Subject: DES Structures Cost Estimate Certification Data

In reference to Rick Land's attached memorandum, "Certification of Project Estimates", dated December 14, 2005, the Division of Engineering Services, Structure Office Engineer, Cost Estimates Branch will support this effort by providing the District the basis of how the structure cost estimate was derived. This will include information regarding significant project variables, the source or basis for unit prices, the assumed project start of construction date, and the midpoint of construction date.

This information will be transmitted to the District under the "ESTIMATE CERTIFICATION DATA" section on the "STRUCTURE COST ESTIMATES PS&E TRANSMITTAL DATA/ESTIMATE CERTIFICATION DATA" form. A copy of this form is attached and can be found on the Caltrans Internet site at <http://www.dot.ca.gov/hq/esc/estimates/forms/>.

If you have any questions please contact me at (916) 227-8728.

Attachments

c: DES – Deputies
District Design Deputies

Memorandum

*Flex your power!
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To: CHIEF DEPUTY DIRECTOR
DISTRICT DIRECTORS
DEPUTY DIRECTORS
DIVISION CHIEFS

Date: December 14, 2005

From: **RICHARD D. LAND**
Chief Engineer



Subject: Certification of Project Cost Estimate

Historically the Department has been very successful in forecasting project cost estimates that are within a reasonable range of the contractor's low bid. This success has allowed the Department to maximize the number of projects planned, programmed and delivered within given budget constraints. Recent market trends have seen escalating costs of key construction commodities used in transportation projects, making it difficult even at Construction Contract Ready to accurately forecast bid item costs. The California Transportation Commission (CTC) holds the Department accountable for project cost increases, whether they be at time of funds vote, award, or during construction.

It is imperative that the funds voted and allocated by the CTC are based on current and accurate project cost estimates developed using the Department's best forecasting capabilities. To drive accountability at the District level for those estimates, the District Director will be required, for all projects with an Engineer's Estimate over \$5 million, to certify that the contract cost estimate is complete and accurate, reflecting the true scope of the work to be performed and representative of the most current market trends. This District Director certification will be required to achieve Ready to List (RTL) beginning January 1, 2006. The RTL Certification form has been revised to include this signature and is available from the District Office Engineers. Also, contract estimates must be updated and re-certified by the District Director for these projects with an Engineer's Estimate more than three months old. Updating estimates due solely to item cost increases will not change the District RTL certification date if it has already been achieved.

The Division of Engineering Services-Office Engineers will monitor the success of these measures, tracking the Engineer's Estimate relative to the low bids. These measures may be relaxed, strengthened or eliminated depending on the lessons learned from this new requirement.

Your continued efforts to accurately forecast the costs of our transportation improvement projects is greatly appreciated. Please contact John McMillan, Deputy Division Chief, Office Engineer, Division of Engineering Services at 916-227-6300 if you have questions.

STRUCTURE COST ESTIMATES PS&E TRANSMITTAL DATA /ESTIMATE CERTIFICATION DATA

Revised - January 12, 2007

DATE:
DIST.-CO.-RTE:
EA:
LEAD STRUCTURE:
Estimate prepared by:
Phone Number:

PS&E TRANSMITTAL DATA:

KEYWORD:

The Engineer's Estimate for the structure portion of this project

☐ is available from BEES.

☐ has been revised as of this date and are available from BEES.

STRUCTURE ITEMS - Including Mobilization & Time Related Overhead	
STRUCTURE ITEMS - Including Mobilization	
STRUCTURE ITEMS - No Mobilization Item	
Supplemental Work:	

State furnished materials and expenses:	
CONTINGENCIES APPROXIMATELY 5%	

Total

\$0

SUGGESTED WORK DAYS FOR STRUCTURE WORK:	
SUGGESTED WORK DAYS FOR STRUCTURE WORK WITHIN	
RAILROAD RIGHT-OF-WAY:	
REVISIONS TO THE ESTIMATE ARE DUE TO:	

ESTIMATE CERTIFICATION DATA: (To be completed at fsPS&E only)	
ASSUMED BID OPEN DATE:*	
ASSUMED MID POINT OF CONSTRUCTION:*	
BRIDGE COST INDEX AT TIME OF THIS ESTIMATE:	
SOURCE OF UNIT PRICES:	

SIGNIFICANT PROJECT VARIABLES: (That were considered in preparing the estimate)

* Note: If the actual Bid Open date or Assumed Mid Point of Construction date vary significantly from the assumed dates the estimate and suggested working days should be re-evaluated.

Instructions for completing the "STRUCTURE COST ESTIMATES PS&E TRANSMITTAL DATA/ESTIMATE CERTIFICATION DATA" form.

Complete the project specific data:

Date: – The date the project estimate and working day schedule was completed.

DIST-CO-RTE: The District-County-Route of the project.

EA: The Expenditure Authorization Number

LEAD STRUCTURE: The name of lead structure.

ESTIMATE PREPARED BY: The name of the estimator who prepared the estimate.

PHONE NUMBER: The phone number of the estimator who prepared the estimate.

KEYWORD: Keyword used in the BEES file.

Check the appropriate box regarding the availability of the BEES and whether or not the BEES have been revised.

List all SUPPLEMENTAL WORK items and dollar amount for each item (add additional lines if needed)

List all STATE FURNISHED MATERIALS AND EXPENSES items and dollar amount for each item (add additional lines if needed)

CONTINGENCIES APPROXIMATELY 5% - Contingency amount (can be found in the BEES output).

SUGGESTED WORK DAYS FOR STRUCTURE WORK: The total number of structure working days. calculated using Suggested Work Schedule form or SURETRAK scheduling software..

SUGGESTED WORK DAYS FOR STRUCTURE WORK WITHIN RAILROAD RIGHT-OF-WAY: The total number of structure working days within 50 feet of railroad tracks.

REVISION TO THE ESTIMATE ARE DUE TO: State why the estimate is being revised (example, prior to RTL, greater than 1 year old, re-PS&E).

ASSUMED BID OPEN DATE: The assumed bid open date can be calculated by subtracting approximately 45 days from the START CONSTRUCTION date listed on the STRUCTURE P&Q TRANSMITTAL form.

ASSUMED MID POINT OF CONSTRUCTION: .Calculated by finding the midpoint between the CONSTRUCTION COMPLETE date and the START CONSTRUCTION date listed on the STRUCTURE P&Q TRANSMITTAL form.

BRIDGE COST INDEX AT TIME OF THIS ESTIMATE: The current bridge cost index at the time the estimate was prepared. This number can be found on the CALTRANS Estimating Branch website <http://www.dot.ca.gov/hq/esc/estimates/>

SOURCE OF UNIT PRICES: List sources used in calculating unit prices (i.e. Contract Cost Database, force account analysis, RS Means, etc.)

SIGNIFICANT PROJECT VARIABLES: List variables that were considered when estimate was prepared. As a Branch we should try to be consistent as to how we list the variables. The following is a list of possible variables.

- Stage construction
- Work windows
- Environmental restrictions
- Site access
- Material availability
- Accelerated construction schedule